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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,670	(06/25/2001	Gordon F. Ellis	00-104	8865
26471	7590	11/17/2003		EXAMINER	
THE BOE	ING COM	IPANY	HERNANDEZ, OLGA		
P.O. BOX 3707 M/C 13-08 SEATTLE, WA 98124-2207			ART UNIT	PAPER NUMBER	
<i>J</i> 2.11120,				3661	
				DATE MAILED: 11/17/2003	3

Please find below and/or attached an Office communication concerning this application or proceeding.

;		Application No.	Applicant(s)
,		09/888,670	ELLIS ET AL.
	Office Action Summary	Examiner	Art Unit
		Olga Hernandez	3661
Th Period for Re	e MAILING DATE of this communicatio	n appears on the cover sheet w	ith the correspondence address
THE MAIL - Extensions after SIX (6 - If the perio - If NO perio - Failure to r - Any reply n	ENED STATUTORY PERIOD FOR R LING DATE OF THIS COMMUNICATI of time may be available under the provisions of 37 C 8) MONTHS from the mailing date of this communication d for reply specified above is less than thirty (30) days d for reply is specified above, the maximum statutory eply within the set or extended period for reply will, by eceived by the Office later than three months after the ent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a con. , a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON statute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1)⊠ Re	esponsive to communication(s) filed or	2 <u>0 October 2003</u> .	
2a)⊠ Th	is action is FINAL . 2b)	This action is non-final.	
clo	nce this application is in condition for a seed in accordance with the practice u		
Disposition o			
•	im(s) <u>1-10</u> is/are pending in the applic		
	Of the above claim(s) <u>10</u> is/are withdra	awn from consideration.	
· <u> </u>	im(s) <u>1</u> is/are allowed.		
	im(s) <u>2-9</u> is/are rejected.		
·	im(s) is/are objected to.	dia and and an area decreased	
8)⊠ Cla⊩ Application F	im(s) <u>1-10</u> are subject to restriction an Papers	d/or election requirement.	
9) <u></u> The	specification is objected to by the Exa	miner.	
10)☐ The	drawing(s) filed on is/are: a)	accepted or b) objected to by t	he Examiner.
Αp	plicant may not request that any objection	to the drawing(s) be held in abey	ance. See 37 CFR 1.85(a).
11) The	proposed drawing correction filed on _	is: a)	lisapproved by the Examiner.
If a	approved, corrected drawings are required	in reply to this Office action.	
12) The	oath or declaration is objected to by th	ne Examiner.	
Priority unde	r 35 U.S.C. §§ 119 and 120		
13) <u></u> Ack	nowledgment is made of a claim for fo	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)∐ A'	Ⅱ b)☐ Some * c)☐ None of:		
1.[Certified copies of the priority docu	ments have been received.	
2.	Certified copies of the priority docu	ments have been received in A	pplication No
	Copies of the certified copies of the application from the Internation	al Bureau (PCT Rule 17.2(a)).	•
_	he attached detailed Office action for a	·	
_			§ 119(e) (to a provisional application).
_	The translation of the foreign languag owledgment is made of a claim for do		
Attachment(s)			
2) D Notice of D	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-94 n Disclosure Statement(s) (PTO-1449) Paper N	8) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
3) 🔲 Informatio	, , ,		

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DETAILED ACTION

Response to Arguments

Applicant's arguments filed 10/20/03 have been fully considered but they are not persuasive.

The applicant argues that Arjomand does not teach an engine analyzer. The examiner disagrees. See columns 7 and 8. Moreover, Smith teaches the real time collected information in column 4. The election/restriction requirement is repeated and made final.

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, drawn to an on-board diagnostic system, classified in class 701, subclass 33.
- II. Claim 10, drawn to a computer terminal in an aircraft, classified in class 701, subclass 36.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because both inventions can work together, but they do not need each other in order to work properly. The subcombination has separate utility such as regular computer system.

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Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Newly submitted claim 10 directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: because group one has been treated on the merits.

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claim 10 is withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Response to Arguments

Applicant's arguments filed 5/7/03 have been fully considered but they are not persuasive.

It has been noted that Arjomand uses a display device that provides information to any user. Further, it has been noted that the applicant has the limitation "or" in the claim language, which provides a choice to select either one of the limitations and not both of them.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2-8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arjomand (5,884,202) in view of Smith et al (5,931,877).

As per claims 2-6, 8 and 9, Arjomand teaches a central maintenance computer system (figures 1 and 6); an onboard maintenance terminal (figure 1); the onboard maintenance terminal linking faults to maintenance documentation (columns 7-8). Arjomand does not teach this applied to an aircraft. However, Arjomand teaches the same for land vehicles. Therefore, it would have been obvious to one of ordinary skill in the art to implement what is old and well known for land vehicles to aircrafts in order to enhance the benefits of the aircrafts. Even though Arjomand does not show how to collect maintenance information in real time; Smith does (column 4). Therefore, it would have been obvious to one of ordinary skill in the art to combine both references in order to provide immediate support to the system.

As per claim 7, it would have been obvious to one of ordinary skill in the art to send the information to a printer in order to have a hard copy of that information.

Allowable Subject Matter

Claim 1 is allowed.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Hernandez whose telephone number is (703) 305-0918. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William A. Cuchlinski can be reached on (703) 308-3873. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

ovember 8, 2003

Olga Hernandez Examiner

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WILLIAM A. CUCHLINSKI JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600